SILENTITE "Pre-Fit"

FRAME • WINDOW • SCREEN AND STORM SASH

The

MODERN

Window Unit

Windows are the "eyes of the house." They can contribute much in beauty, comfort, economy. SILENTITE windows helped this picturesque little home acquire the distinction of being known as "the prettiest house in town."

16-light Silentite window. Silentite is made in a wide selection of standard designs and sizes. Curtis also makes several styles of shutters.

12-light Silentite windows. Bays with Silentite are more beautiful and more practical because of the narrow mullions. Pre-fit screens, part of the Silentite Unit, were up when this picture was taken.

Your Home Will Be Only As Modern As Its Windows

YOUR HOME—castle or cottage—can be only as modern as the materials you put into it. Your heating plant, your roof, your plumbing, all are important, surely, but no more so than the windows for your home.

The need for a complete and modern window unit that would keep expensive heat *in* and dust and dirt *out* existed for hundreds of years. Air-conditioning and insulation of homes made action imperative. Curtis, makers of fine woodwork since 1866, has supplied that need—and very effectively.

For two years, Curtis engineers worked to perfect the SILENTITE window. Then they took it to the nationally known Pittsburgh Testing Laboratory for tests and recommendations. Following that, as a test, Curtis installed over 2,500 SILENTITE windows, in 100 different houses under all the varying climatic conditions found in 25 states. Builders kept careful records and submitted signed reports. A few improvements were suggested and adopted.

Few new products which embody revolutionary changes received the quick and enthusiastic endorsement afforded SILENTITE. Architects, contractors, material dealers, realtors, bankers, trade magazines, government officials, all were quick to see in the new SILENTITE window the improvements, the beauty, the utility, that has been sought for nearly 300 years—since the first sash window came into use in England.

SILENTITE is called a "new" window, because it embodies entirely new methods of construction and operation. Yet, it has been *widely used for nearly five years.* Many thousands of homes have Silentite windows, and, today, it is the fastest selling modern window in America.

A Complete Window Unit

The Silentite Pre-Fit Window Unit consists of a frame; a window, pre-fit to that frame; the spring balancing and double-contact metal weatherstripping; Mitertite Trim; screen pre-fit; Protectorvent storm sash likewise pre-fit to the frame opening; all attaching hardware, simplified and improved.

© 1936 CURTIS COMPANIES, INC PRINTED IN U. S. A

Here Silentite is used in three different walls—stone, siding, brick. The basic Silentite frame is adaptable to any type of wall. Pre-fitting at the factory lowers installation costs.

The beauty of Silentite is readily apparent when windows are grouped. By eliminating bulky weight and pulley boxes, narrow mullions are used. More wall space or more light, or both, result.

Wood Given Preservative Treatment

Frame and sash are of Ponderosa Pine, dipped before glazing in a preservative toxic oil. Wood-destroying fungi cannot live in the presence of this toxic. In addition, the linseed oil used seals the wood pores against moisture, which is necessary for fungus growth.

There is less shrink or swell in treated wood. This treatment bridges the gap between installation and priming. However, any frame and sash should be primed before being placed in a building.

5 Superior Features

The practicability of spring suspension has been demonstrated by years of perfect operation in thousands of homes.

Weathertightness is proving itself year after year. Home owners claim an average reduction of 25% in fuel bills.

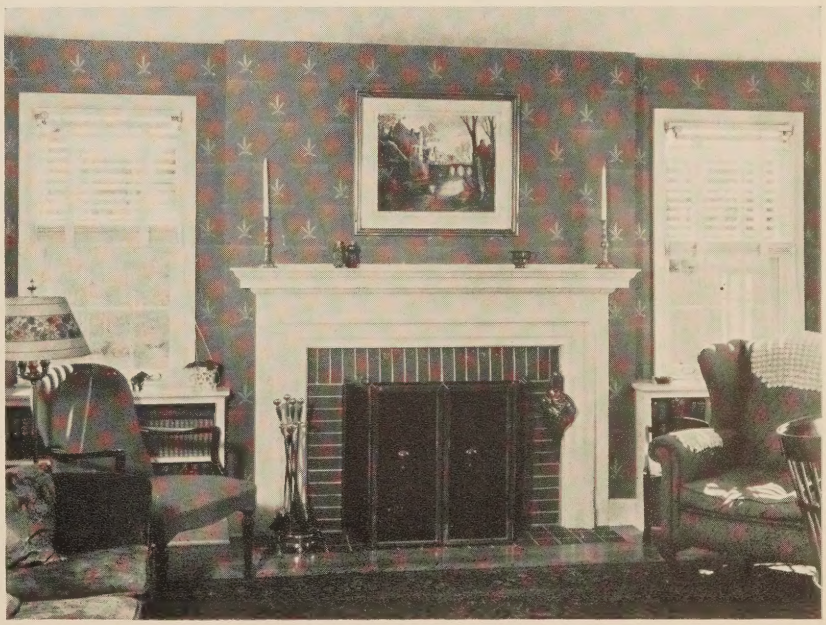
Longer life, produced by the use of Curtis Toxic Oil Dip, provides a better base for paint, and a secure foundation for glazing putty. The dip retards the effects of condensation.

Beauty of narrow mullions, casings and trim is reflected by constantly increasing specifications by the architect.

Adaptability to all types of walls at lower installed cost.

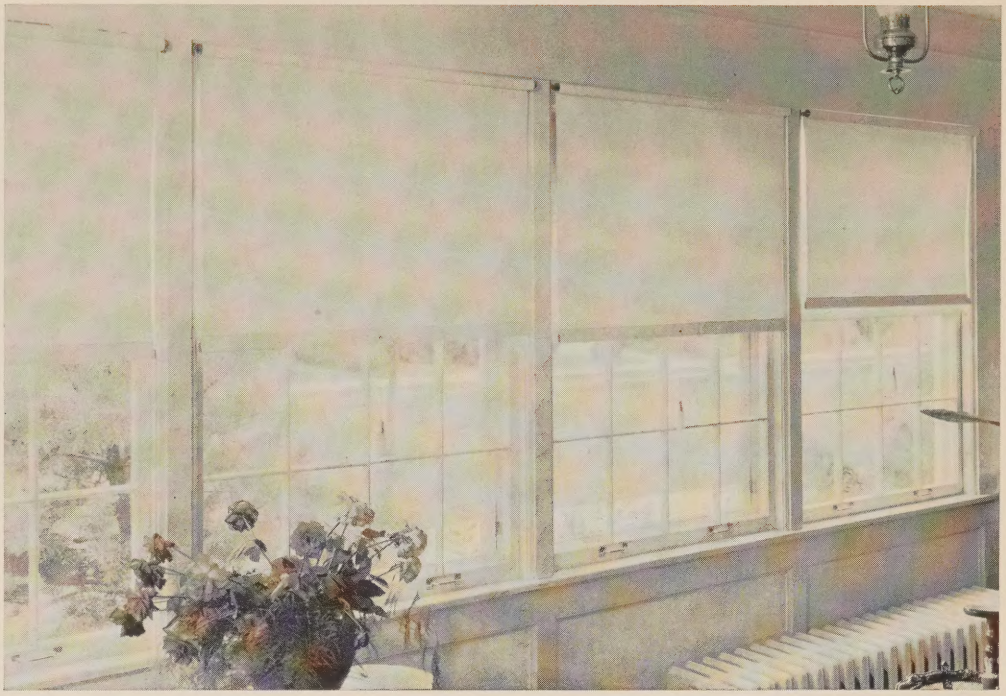
Lustraglass Used

Silentite Pre-Fit windows are glazed with Lustraglass—a flat drawn glass of unusual clearness and quality. The glass is surrounded with putty where it would normally come in contact with the wood. Because the pores are sealed, the putty is not robbed of its oils. It remains soft and pliable. A putty key on the outside of the glass helps hold the putty in place. On the inside, a groove is provided to receive back putty level with the wood. Thus a well-filled paint brush covers the putty, effectively sealing the putty, wood, and glass union.



A Beautiful Interior . . .

does not "just happen." It is planned —and woodwork plays a very important part. This charming room is in the home pictured on the opposite page. The mantel is Curtis design C-6052. The windows are SILENTITE. Note the beauty of the narrow Curtis Mitertite trim around the windows. This new-style trim is a companion product of Silentite.



The superior built-in weatherstripping of the Silentite window makes it fully five times as tight as the ordinary window without weatherstripping. This means big fuel savings—cleaner rooms—freedom from drafts. Silentite is the ideal window for sun parlors and closed-in porches.

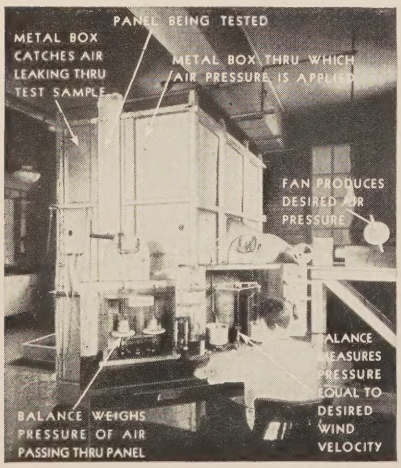
Save Up to ⅓ On Your Heating Costs

SILENTITE windows and frames decrease home heating costs—stop drafts—and reduce the frequency of cleaning of draperies, curtains, rugs. Home maintenance and operating costs are less. SILENTITE is literally an "insulated" window.

With reduction in costs comes new beauty in the window itself—the narrow trim and the elimination of the noises and bother of the weights, pulleys and cords. These advantages are the result of spring balancing and weatherstripping.

All the architectural values of narrow muntins and bars of former Curtis windows have been retained in SILENTITE. To these advantages have been added the further beauties of narrow mullions, outside casings, and narrow interior trim.

All the hominess of wood windows *plus* new beauty—all the convenience of double-hung sash plus a host of improvements—all the economy of a truly *insulated* window—these are the added values you get in SILENTITE.

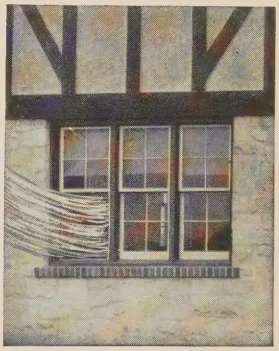

PANEL BEING TESTED
METAL BOX CATCHES AIR LEAKING THRU TEST SAMPLE
METAL BOX THRU WHICH AIR PRESSURE IS APPLIED
FAN PRODUCES DESIRED AIR PRESSURE
BALANCE MEASURES PRESSURE EQUAL TO DESIRED WIND VELOCITY
BALANCE WEIGHS PRESSURE OF AIR PASSING THRU PANEL

Standard Sizes

Silentite windows, frames, storm sash, screens and Mitertite trim are available in that standard range of sizes necessary for home construction, based upon the accepted 1⅜″ thickness of window. There is a wide selection of designs. Silentite double-hung windows are standard in the following patterns: 2 light, 4 light, 6 light (3 wide, 2 high), 8 light (2 wide, 4 high), 12 light (3 wide, 4 high), 16 light (4 wide, 4 high), and with the top sash 6 light (3 wide and 2 high), the bottom sash one single pane.

Laboratory Testing

The Curtis Silentite Pre-Fit Window Unit was marketed only after exhaustive testing and perfecting of the product. The services of the great Pittsburgh Testing Laboratory were employed, as pictured on the left. This shows machine for testing air-infiltration. Pressures equalling wind velocity of more than 40 miles per hour were produced to test weathertightness. Silentite was proved to be by far the tightest window made.



No One Would Do This

—leave out a sash. But that is exactly what happens if you fail to weatherstrip windows. The open areas between sash and frames on a non-weatherstripped house approximate the area of one sash, as above. Silentite has built-in metal-to-metal weatherstripping — the most effective known. Weatherstripping is part of window unit—not an extra applied later. One year's fuel savings will more than pay the slight added cost of equipping your home with Silentite—the window with built-in weatherstripping.

Keeps Heat IN . . Dirt and Dust OUT!

More for Your Money in SILENTITE

Frame and window air leakage reduced below any previously known point, by new type weatherstrip.

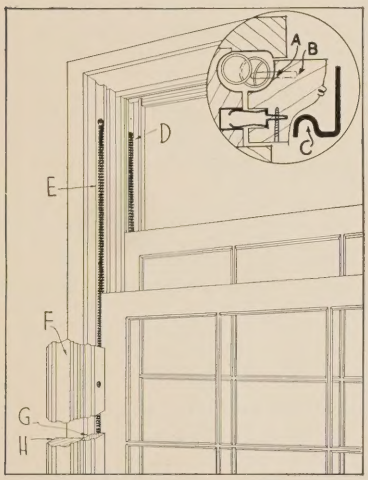
A heavier frame. $1\frac{1}{16}$" jamb material instead of usual $\frac{3}{4}$". Jambs screw to sill.

Plaster ground and key all around the frame, a better plaster job with better trim nailing surfaces.

Sturdy one piece narrow mullion—no weight boxes. More glass area or more wall space as desired.

Sill slope 1" to 4" provides good drainage—weep holes in blind stops and a way for water to get out under the screen.

In the Silentite house, curtains, drapes, bedding, wallpaper, everything, remain fresh and clean much longer, because dirt and dust cannot seep in, when windows are closed. (See pages 6 and 7.)



No Bulky Weights and Pulleys

Springs (E and D) held by hook (C) inserted at (B) running through notch (A) in bottom of sash. Also by screws in jambs as at (D). Screw holes in jambs provide adjustment.

Stop (G) houses the spring and with casing (H) is part of trim detail (F). Springs, less apparent than cords and pulleys, are easily replaced, if necessary, without moving stop or trim.

Less time to set up—less time to install—which lowers installation costs.

Frame carton-packed—insuring clean frame in the wall.

Full metal-to-metal contacts between sash and frame. Action of windows not affected by shrink or swell of sash. Weathertightness does not depend on wood to wood contact of sash and stops.

Spring suspension eliminates pulleys and weights with their noisy jamming and broken cords. Tests have proved springs to have far longer life than sash cords and are easier to replace.

No through cuts in jambs—reduces air leakage—important from standpoint of fire hazard and heating efficiency.

Greater beauty of exterior design possible through use of narrow mullions only $2\frac{1}{8}$", as compared with usual $5\frac{1}{2}$".

More beautiful interiors with Mitertite Pre-Fit trim.

Easier window operation although weathertightness is increased.

Sash Pre-Fit to fit frame—economical installation.

Weatherstripping is done when window is installed. No muss or bother for owner later. Most efficient weatherstripping known at less cost than for ordinary kind.

Storm sash and flush mold screens, pre-fit to the frame opening, save on installation.

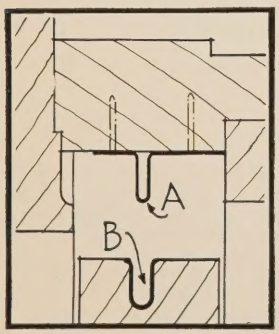
Simplified hardware for both, costs less, installs and operates more easily.

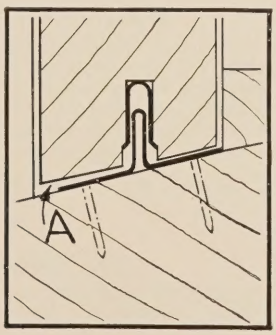
Protectorvent storm sash is the first practical low cost ventilating system which operates without moving sash out of opening.

Long life of frame and sash due to wood treatment with Curtis Toxic Dip.

Head Weatherstripping

(Below) Zinc male member (A) and female (B) put in place at factory. They are self-centering because of flexibility of side weatherstripping.



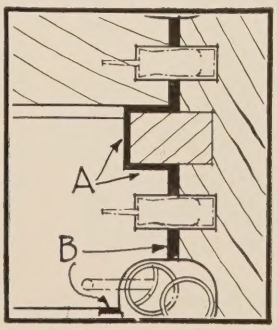


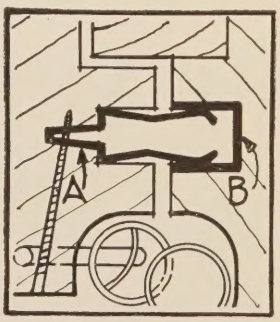
Sill Weatherstripping

(Above) Female member placed at factory, well up in bottom rail. Male member applied to sill with sash in place. Note water-drip, A.

Factory Fitted Sash

(Below) No possibility of sash sticking through swelling. Note generous clearance across openings and between stops. See (A and B). Vertical weatherstripping stops air leakage.





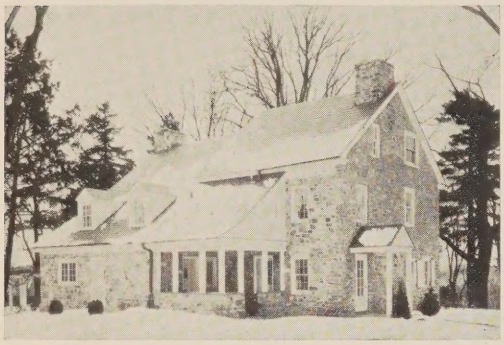
Vertical Weatherstripping

(Above) Copper-bronze weatherstrips (A) held in sash stile grooves, run in bronze channels (B) in jamb of frame. Strips, in tension, give double-contact protection against infiltrating air.

HOME OWNERS PRAISE SILENTITE FOR

Silentite windows are in use in many thousands of homes in the 36 states east of the Rockies, where Curtis Woodwork is sold through retail lumber dealers. What do these home owners have to say about Silentite? What do architects and builders think of this new style window?

Every day letters are received by Curtis—several hundred are on file—telling of the satisfaction derived from using Silentite Pre-Fit Windows. A few of these are reproduced here—and are typical of most of the other letters received. An interesting little booklet called "What They Say After Living With Silentite" is available upon request.



Remodeled home of Dr. M. C. Del Manzo, New Hope, Pa., winner of $1,000 Sweepstakes prize, Better Homes and Gardens Remodeling Contest, 1933.

Home of H. F. Hartman, Scranton, Pa., located on U. S. 611, Moscow, Pa. Silentite used in remodeling original home more than 100 years old.

Home of Frank G. Schumacher, 24 Meadowbrook Road, Hempstead, L. I., N. Y. Read this gentleman's letter here.

An Architect's Viewpoint

Alfred N. Boell, architect, New York City, writes about Silentite in connection with the Dr. Del Manzo house pictured at the left.

"I am of firm opinion that the Silentite Pre-Fit frame and sash are one of the finest products in the building field. The advantages are a decided labor saving—ease of operation—neat in detail—elimination of weights and cords; and most important, a great fuel saver.

"I want to recommend this excellent product of first class material and workmanship to the other architects and home owners."

(signed) ALFRED N. BOELL.

70 Degrees with 25% Less Coal

The fuel saving figure, of which Mr. Hartman, Scranton, Pa., writes, is dependable because he is heating the same house, illustrated on left, middle picture.

"Ours is an old Colonial house built a hundred years ago and recently modernized. We are delighted with our Curtis windows. We maintain a constant temperature of 70 degrees day and night with 25% less coal than we formerly burned.

"The man who builds or remodels today should use Curtis windows to curtail the upkeep of his home."

(signed) H. F. HARTMAN.

More Glass—More Sunlight

"May I take this opportunity to commend you for the practicability of your Silentite windows? I find them far superior to any sash I have seen, for the following reasons:

"More glass—more real sunlight on account of the kind of glass used—no leakage of cold—far neater trim—no fear of broken sash cord—windows always easily raised and lowered.

"Am enclosing snapshot of my recently completed home. We are mighty proud of our Curtis Woodwork."

(signed) FRANK G. SCHUMACHER.

It Gets Cold in Minnesota

"We have lived in our house now 18 months and our Silentite windows have been put to every test possible—cold, wind, and dust. They have met all successfully. They fit snug and tight, exclude wind and dust, and save us considerable fuel. They are easily opened and closed, there is no sticking or binding, and absolutely no rattling, though the wind does blow here at times."

GEORGE W. BEISE, Lawyer, Morris, Minn.

Old Style Cost More

"Before deciding on Silentite windows, I went into the matter of cost between Silentite and the old style window properly weatherstripped. Silentite costs less. The weight and cord windows having a box on the side, cause more or less draft even when weatherstripped. I just moved out of a house about the same size of the one I am in now and I find that with Silentite I have cut my fuel cost just about half."

L. HENRY MICHAUD, Fall River, Mass.

WEATHER-TIGHTNESS AND FUEL ECONOMY

(FROM EMPORIA, KANS., GAZETTE, MARCH 20, 1935)

"Emporia bit the dust today, as the worst sand storm in the history of the town enveloped it in a suffocating, penetrating blanket of coppery dust which necessitated street and auto lights. Frightened pedestrians and motorists retreated from the streets. Merchants suspended business; housewives labored to keep the air sufficiently clean for occupants to breathe; parents besieged schools about children; trains were held up two hours. The dust clouds obliterated the sun completely. Shortly after 11 o'clock the storm settled to earth and zoomed through the streets. Breathing in many homes and buildings became difficult."

What a test for the Silentite window! Let's see what some Emporia residents had to say after the storm—owners of homes equipped with Silentite windows. Many states have suffered from these terrific dust storms, but none as severely as Kansas.

"Stand Up Under Every Test"

"During the recent dust storm we had in Emporia, we had an opportunity to test the Silentite windows we have in our new home. We found that they stood the test satisfactorily. While a little dust got into the house, it was of no consequence and certainly not the fault of the windows.

"If we were to build a home today we would not consider any other window but Silentite, because we have been in our home nearly a year and they stand up under every conceivable test."

(signed) Leo J. Brinkman, C.P.A., Emporia, Kans.

"Just Like Any Other Day"

"During the recent dust storm, our Silentite windows were more than satisfactory. We had very little dust in our house after this storm was over; in fact, I do not think that we had any more dust in our house than one would have *in a house with ordinary windows on an ordinary day.* I assure you that we are more than pleased."

(signed) James Pagedas, Emporia, Kans.

"Would Have No Other Kind"

"It is with pleasure that I endorse the Curtis Silentite Pre-Fit Windows that were installed in my new home a few years ago.

"During the very severe dust storms, my home was almost free from dust and dirt. If I were to build another home, I would have no other kind of windows."

(signed) Mrs. J. R. Harvey, Emporia, Kans.

And Here's Another

"After being in our new home for more than fifteen months I am glad to state that we are very well pleased with our Silentite windows. The recent dust storm was a good test for them and we feel that they did a good job of keeping out the dust. They also are a fine protection against beating rains and storms."

(signed) W. H. Singular, Emporia, Kans.

No Dust Thru Silentite

"For the past week the dust storm has been the chief topic of conversation at home. The housewives in this section could talk of nothing else for the last few days. In my office in the Worsley Bldg., I have *not* noticed any difference and I'm quite sure that it is because of the weather-tightness of that new Curtis window."

(signed) Edward A. Jones, State's Attorney,
Lee County, Dixon, Illinois.

Leo J. Brinkman home, Emporia, Kans. Brinkman & Hagan, Architects; Andrew Beach, Contractor. Mr. Brinkman's letter is on the left.

Home of James Pagedas, Emporia, Kans. English Bros., Contractors; Brinkman & Hagan, Architects. Mr. Pagedas is mighty proud of his Silentite home.

J. R. Harvey residence in Emporia, Kans. The builders were Markowitz Bros. Brinkman & Hagan, Architects. Read what Mrs. Harvey thinks of Silentite.

Features That Make SILENTITE

THE CURTIS SILENTITE *Pre-Fit* Frame, Window, Screen and Storm Sash with Mitertite Trim is a complete unit, weather-stripped.

When a builder assembles the necessary materials for the old-style window opening, he must make arrangements for frames and sash, go elsewhere for weights and cords, and then get the weather-stripper on the job.

How easily mistakes and misunderstandings may arise—delays develop—and how about the total costs?

With SILENTITE, the builder can get all the materials required in plainly marked cartons—no mistakes, no delays—one price, one delivery. And the materials will be outstanding from the standpoint of price, installation cost, and value.

FRAME—Has outstanding superiority—sturdy—weather-tight—thicker parts—greater sill slope, better drainage—narrow mullions and outside casing—better trim nailing surface—narrow trim economically applied—better plaster key—more quickly assembled—fits any type wall.

WINDOW—Fitted at factory, a saving in final cost—clearance in width, height and thickness eliminates sticking—glazed with Lustraglass—putty rabbet and Curtis putty groove specially primed—back puttied—completely machined.

WEATHER-STRIPPING—Metal-to-metal, zinc head and sill members—copper-bronze double leaf—double contact—expanding vertical side weather-stripping running in copper-bronze channels in the jambs—highest ratio against air infiltration—lower fuel costs.

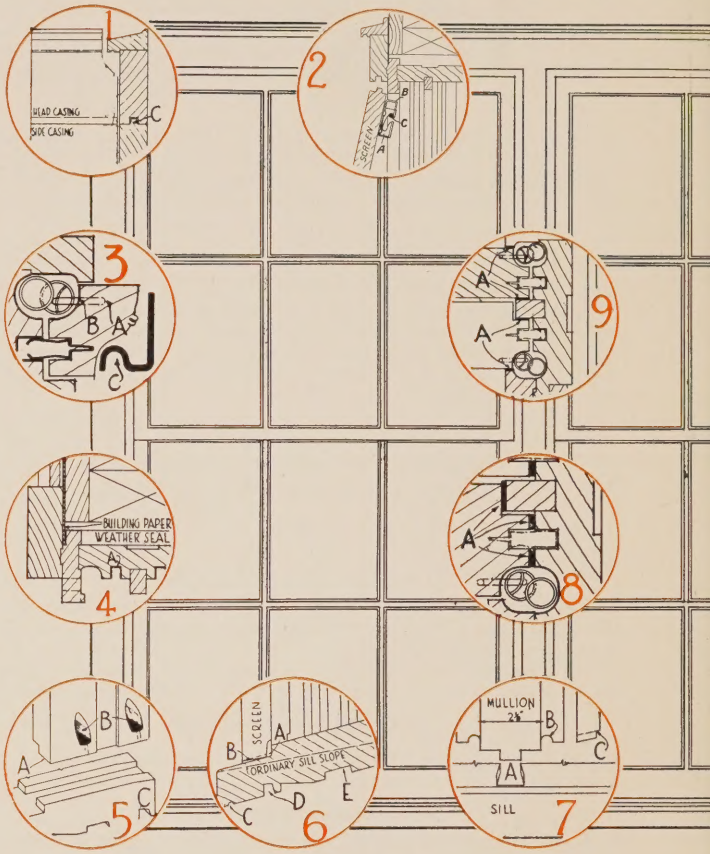
TRIM—New patterns of Mitertite *Pre-Fit* narrow trim. Applied to frame without expensive preparation of weight box. Added beauty at a saving of material and labor. Narrow (2¼″) mullion casings. Stops are part of trim and must be used with SILENTITE unit.

SCREENS—Flush molded, 1⅛″ stock mortise-and-tenon construction—16 mesh antique bronze or galvanized wire—pre-fitted for the opening—bottom rail and stiles rabbeted and bottom rail cut $\frac{1}{16}$″ for sill drainage.

STORM SASH—Multiple light design—bottom row of lights held in insert which swings inward to provide adequate ventilation—delivers fresh air in quantities without drafts. Made with and without Protectorvent ventilating feature.

HARDWARE—For screens and storm sash—ribbed top rails fit into head casing plow—only two fasteners, which engage the blind stops, required—no hardware on face of sash or screen—also hardware for outswing purposes. Economical.

At the left below are SILENTITE *Pre-Fit fram*
The details at the right cover particular featur



Silentite Has Established a "Difference" in Houses

Just as the advent of insulation made uninsulated houses less desirable, so has the *Silentite Pre-Fit Window Unit* established a "difference" in homes.

Users of Silentite have already proved that through fuel saving alone this window unit is returning yearly dividends.

One has to look into the future but a few years to know that a home will be termed "old style" if it does not have insulation and this modern window.

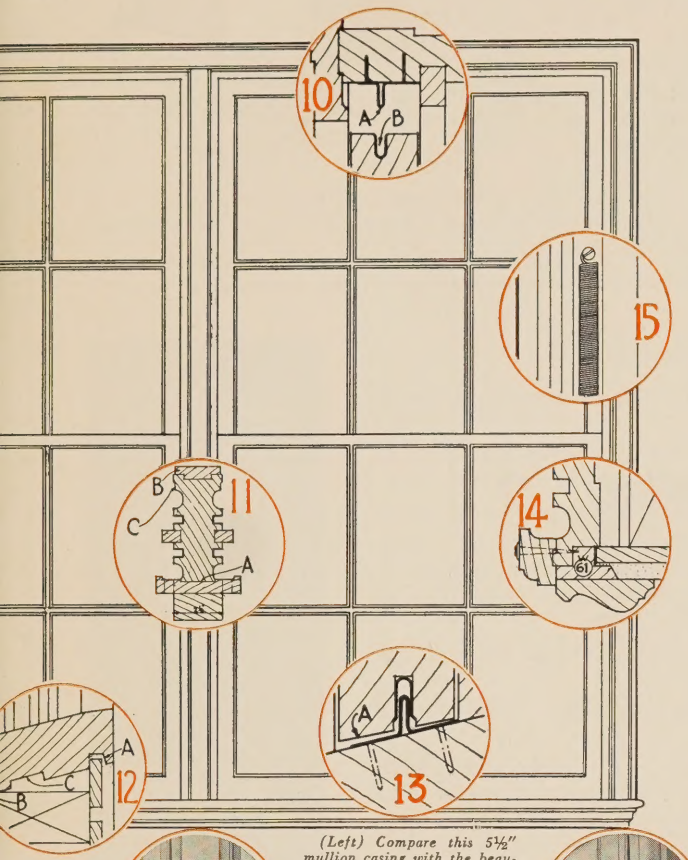
In the past, infiltrating air through old-style window openings has made it impossible for insulation to work effectively. It has the same effect on an air-conditioning system. Silentite Pre-Fit Windows are a necessity in "today's" home.

Only C
Silent

The Sile
dow Unit
the manufa
Woodwork.
tected by
eign paten
lished reta
handling C
sell Silenti
other windo
for, we re
features are
the patent
SILENTITE
See the win
have no oth

America's Most Modern Window

Window features as they apply to the exterior. The interior.



(Left) Compare this 5½" mullion casing with the beauty of Silentite 2¼" mullion casing directly above. (Right) Note width of trim necessary to "cover" on weight-box frame. Here a 4¼" casing is shown, while above is a 2¼" trim, practical on Silentite.

More Light or More Wall Space

The contrast above between the usual trim and the narrower trim of the SILENTITE *Pre-Fit* window unit graphically portrays the space-saving possibilities of this new product.

Multiple windows so necessary in houses of English design often present problems from the standpoint of usable interior wall space. Is there ever enough for the average owner?

The same glass sizes in the SILENTITE *Pre-Fit* window give more wall space—and if more light is desired it can be had without sacrificing desirable wall space on the interior.

Silentite Pre-Fit Features—More for Your Window Dollar!

1. Tongue on side casing enters groove in head casing (C); eliminates open joint.

2. Hanger (A) is screwed to screen (or storm sash). The hook of the hanger engages brass pin (C) with screen held in convenient position. When screen is pushed up into place the sliding lock (B) positively and automatically closes the hook gap so that screen cannot be accidentally dropped. Easily installed or taken down from either inside or outside.

A convenient hand hold is provided in bottom rail for adjusting from inside. Pre-fitted hardware holds bottom of screen in place.

3. Hook (C) inserted in bottom rails of sash and driven flush, parallel to sash face over index (B) holds balancing spring. Top of spring attaches to the jamb. (See 15.)

Vertical spring bronze weather-stripping in stiles runs in bronze channels in jambs. Its double seal stops infiltration.

4. Building paper weather-seal inserted in blind stop rabbet reduces leakage at this point in this frame 50%.

Note ample nailing surface available with the 2⅞" outside casing. Copper-Bronze Channels (A) are set in jambs.

5. Tenon (A) is held in sill dado by two 2½" No. 12 rustproof screws, through holes (B) bored at the factory. No splitting. Screws furnished. Note (C) plaster key and lath shoulder.

6. Screen bottom rail clears sill $\frac{1}{16}$" at (B) while stiles extend to sill. Rabbet (A) provides adequate sill drainage. Sill slope of average stock frame shown by dotted line. Waterdrip (C) siding-groove (D); and mortar key (E) are valuable construction features.

7. Strong tenon on mullion members with sill dado (A). Weep holes (B) and rabbet in blind stop (C) effectively drain sill area.

8. Sash machined square. Clearance (A) maintained when *Pre-Fit* sash are placed in frame, eliminating sticking and other window troubles. This clearance does not affect infiltration because the air is stopped by flexible, double-contact, vertical weather-stripping.

9. The distance between the blind stop and parting stop provides $\frac{3}{32}$" clearance. The same clearance between parting and inside stop (A equals A) insures easy operation. Shoulder on inside stop members with jamb and jamb liner, W-61, establishing required clearance (see 14).

10. Zinc head weather-stripping (A and B) are in place when shipped. They are self-centering because of the flexibility of side weather-stripping. (See 8.)

11. Note the sturdy, solid, narrow mullion (2⅛") with airtight shoulder (A). Jamb liners (B) adjust mullion to correct width for any wall. Position of (B) and rabbet (C) control placement of inside stop.

12. Horizontal cut (B) provides a substantial contact with the rough sill (header); mortar key (C) and lath shoulder and plaster key (A) are features of evident value.

13. The zinc sill weather-strip member is applied (nails furnished) after sash are installed. Female member set well up in the bottom rail. Should any fitting for height become necessary this can be done without injury to tools.

Bevel of bottom rail (A) provides water drip and pocket which impounded air will keep dry.

14. Plaster ground liner, W-61, adjusts basic jamb to correct width for 3⅝" studs. Other liners produce correct width of jamb for all types of wall. Width of stop used varies with the liners used.

Note lath-shoulder, nailing surface and position of the stud in relation to a 2¼" trim.

15. Balancing springs attach to screws in jambs. Schedule in hardware carton insures proper location and balance.

S Makes Windows

Pre-Fit Windde only by s of Curtis fully proan and forOnly establber dealers Woodwork here is no st as good," ll Silentite protected by Insist upon your home. nd you will l.

TITE "E ND STORM SASH

NO RATTLING—STICKING—BINDING

THE SILENTITE UNIT—MORE ECONOMICAL

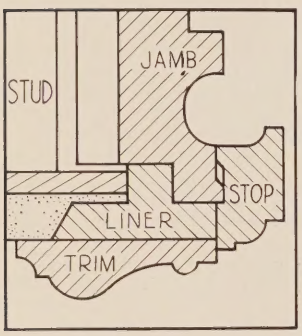
Shortens Building Time

MITERTITE TRIM applied to the Silentite frame shortens building time. Time tests in laboratory, employing disinterested mechanics as well as averages taken from actual experiences in applying trim in houses, set up the time comparison—55 minutes the old way against 13 minutes the new way—the Mitertite way of trimming windows and doors.

In the laboratory tests, four different carpenters, at different times without knowledge of each other, were sent into a room where a Silentite frame was set up. Mitertite trim for the opening was placed nearby. They were asked to apply the trim and report when finished. Later these same men entered the same room, found lineal footage of ordinary trim nearby. They applied that and reported their time. The result was 55 minutes the old way; 13 minutes with Mitertite.

This saving of time was further checked in the field with different carpenter crews in different houses.

Mitertite Completely Machined



Any Trim May Be Used

Compare the position of the stop above with that of C-5080 below. Above, the wider stop laps over the trim. C-5080 is lapped by the Mitertite Trim. Any trim may be used with the Silentite unit. Here we illustrate the Winthrop design by Curtis but it does not include the Mitertite joint.

Here are the reasons for this remarkable saving in application time.

1. The head casings are accurately machined to exact length with the special joint at each end.

2. A reverse joint is machined on the upper end of each right and left side casing.

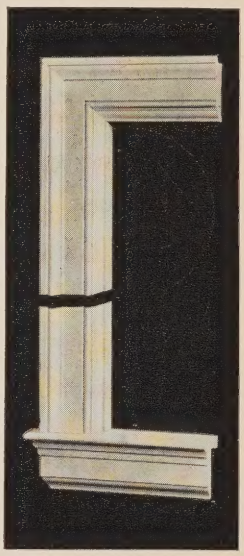
3. Side casings are cut square at bottom ends about one inch longer than required so that a perfect joint may be made at the stool.

4. Stool is horned at both ends and the ends returned on the solid.

5. The apron is cut to exact length and returned on the solid.

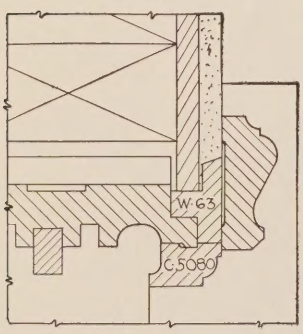
6. The window head stops are cut to exact length and mitered at both ends. Side stops, rights and lefts, are mitered at the top and are about 1″ longer than required, to permit of fitting perfectly at the stool.

7. Door side casings and stops are furnished long enough to provide for various practices with respect to allowance for plinth blocks and threshold.



York Design

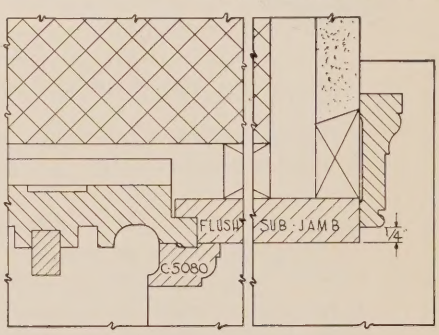
Casing C-5256, ¾″ x 2¼″. Stock in Pine, Oak and Birch.



Mitertite Costs . . . Most Reasonable

One would naturally assume that so completely machined a trim would have to be sold at a high price. The contrary is true.

The exceptionally strong locked-miter-joint between head and side casings is mitered and machined in one operation, requiring little more time than a straight miter. Notching and returning of stool, etc., likewise done with special machines, is a rapid operation. On the wall, Mitertite is the most economical of trims.



Mitertite Window Trim, Type One

Casings set to lap each stop ⅛″.
For frames C-1515, C-1516, C-1517, C-1519, C-1520, C-1521, C-1523, and C-1524.

Madison Design illustrated in cross-section on frame C-1516. Madison consists of casing C-5056 and apron C-5063 with stool and stops depending on type of frame. Stools and stops specified on pages 13 to 15, inclusive.

Mitertite Window Trim, Type Two

Casings set with ¼″ reveal on flush sub-jamb. For frames C-1526 and C-1527 or for any Silentite frame where ¼″ reveal is desired.

York Design illustrated in cross-section on frame C-1526. York consists of casing C-5256 and apron C-5263 with stools and stops depending on type of frame. Stools and stops specified on pages 13 to 15, inclusive.

MORE BEAUTIFUL WITH MITERTITE TRIM

Narrow Molded Casings— The Choice of Architects

Architects have long demanded narrow trim of good design as in much better taste than wide, bulky trim. In addition to meeting this demand, Curtis has developed a practical plan to produce pre-fit trim with a miter joint far superior to the common butt miter even though it be reinforced by a metal spline.

It is as permanent as it is practical to make a joint—a patented joint simple in construction yet as strong as the wood itself.

Mitertite is now in use everywhere with exceptionally good results. It has ended the "open miter joint" problem for it always "stays put" and is very beautiful in detail. For both window and door trim, Mitertite is the ideal modern trim.

Narrow mullions and narrow molded casings and narrow glass division bars bring beauty to the home interior.

Madison Design

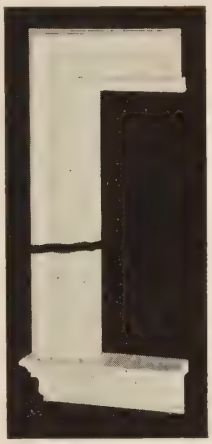
Casing C-5056, $\frac{15}{16}$" x 2¼". Stock in Pine, Oak and Birch.

Avon Design

(Right)

Finishes ¾"x2¾"—a half inch wider than other three designs. Made in pine, oak, and birch.

Here is a very beautiful trim—excellent for use with Silentite windows, and for door trim.

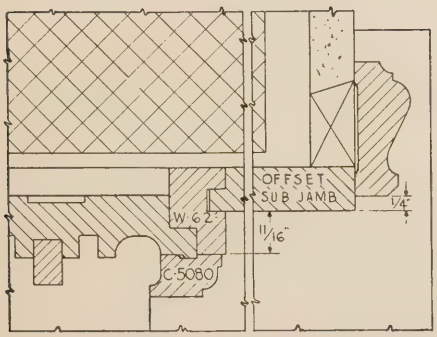


Penn Design

(Left)

Finishes ¾" x 2¼"—same size as "York." Made in pine, oak, and birch.

With the four beautiful designs of Mitertite Pre-fit trim illustrated here, there is a choice for every taste.



Mitertite Window Trim, Type Three

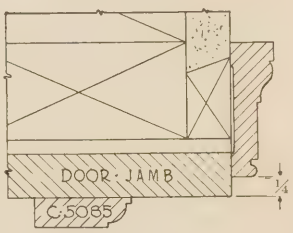
Casings set with ¼" reveal on sub-jamb offset $\frac{11}{16}$" for frame C-1528. Madison casing C-5056 illustrated on frame C-1528.

Notice the unusually ample nailing surface over the studding in Type One. Grounds shown in Types Two, Three and Four supply needed nailing area.

From the Machines to You — Carton Packed

The accurately machined Mitertite trim members are sealed in cartons as soon as they come from the machines after inspection. At that time the trim is of average moisture content and the protective carton keeps it that way.

When delivered to the job by the Curtis dealer, it is removed from the cartons for the first time. It comes to your building clean, bright, economical and ready to apply in record time.

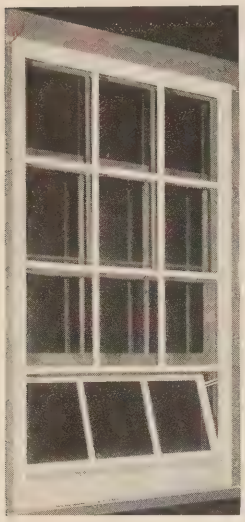


MITERTITE Pre-Fit WINDOW AND DOOR TRIM

Mitertite Door Trim, Type Four

Casings set with ¼" reveal for all door frames and inside door jambs. Rough openings should be made approximately 2" over standard door size for best results. Door side casings and stops are furnished long enough to provide for various practices with respect to allowance for plinth blocks and threshold. Mitertite is the ideal door trim—beautiful, practical, economical.

STORM SASH AND SCREENS—PRE-FIT



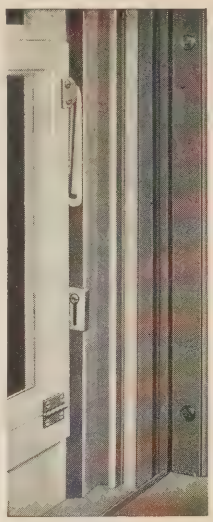
Controlled Ventilation

THE storm sash of "yesterday" sealed up the opening well enough, but it never provided the adequate ventilation when that was needed. It was always difficult to put in place—and it had to be fitted to the opening.

The Curtis Protectorvent Health Window can easily be put in place from *the inside*. It is Pre-Fitted to the Silentite frame opening and it provides controlled ventilation.

The Protectorvent itself may be placed in four positions: (1) closed, it is the bottom quarter of a twelve light sash, adding to the appearance of the average home; (2) opened backward against the closed bottom sash, with top sash down, it provides ventilation in blustery weather and still no snow or moisture can get inside the home; (3) in the usual ventilating position described below; and (4) opened to the sill for maximum ventilation. Truly a "Health Window."

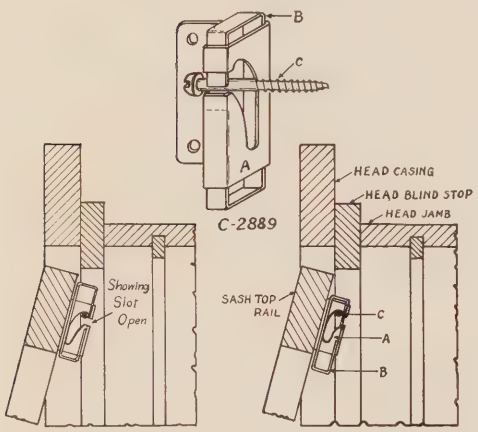
Curtis Pre-Fit screens, with their sill drainage feature and improved hardware have the wire nailed in and are flush molded. A stronger screen, easier to handle and store.



Protectorvent Hardware

At the left above: ventilating section open, bottom sash resting upon it. This "chimney" delivers fresh air at top of window opening—no drafts.

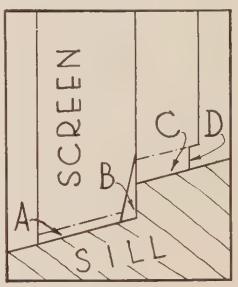
At the right: inside view, Protectorvent closed. Can be lowered to sill by releasing arms. Blind stop fastener holds sash or screen firmly, the hooked part of fastener engaging pin through kerf in stile.



"Self-Lock" Screen and Storm Sash Hangers

(Left) A. Slotted hanger housing. One attached near top end of each sash stile. B. Sliding lock. When in "down" position, it closes mouth of slot. C. Screw pin. Driven in face of each side blind stop.

The advantages of this new style "self-lock" hardware for screens and storm sash are many. They are invisible from the outside; neater appearance; easily installed from inside — just six screws used. Sash or screen easily hung from inside by one person; easily hung by one man from the outside, if desired. Securely locks sash to pins so it may be swung out as far as desired, with no possibility of becoming disengaged and falling. Practically indestructible; not exposed to weather. Equally desirable on unfitted sash or screens with ordinary hooks at bottom.



(Right) Weep holes (C) and notches (D) in blind stops insure complete sill drainage.

The Silentite Pre-Fit Screen is beveled (B) and there is 1/8" clearance between sill and screen bottom rail. Water cannot accumulate between screen and window bottom rails.

Weather-Stripping for Nothing

"The superior weather-stripping of Silentite entirely eliminates window draft. The ventilator in the storm sash is the best I have ever seen.

"Often in my old house on a windy day I could actually see the curtains flutter. No wonder we wasted so much fuel. I figure that the weather-stripping on Silentite windows cost me nothing. Any additional first cost was made up in the economy of installation."

(Signed) AUGUST A. STARK, Wausau, Wis.

All Fit Perfectly

"Silentite windows are all the name implies—absolutely tight against wind, dust, and water. No rattling or sticking of either sash—I can raise every window in my home with one finger.

"I used twenty-three pre-fit windows, screens and storm sash. All fit perfectly. In addition I save at least 25% in fuel costs. I recommend Silentite to every home builder."

FRANK N. PHILLIPS, Hoskins, Nebr.

Silentite units used in a sun porch addition provide greatest possible glass area. Standard sizes used throughout. Stock list is of sufficient size to eliminate necessity of more expensive made-to-order units.

A TIGHTER—STURDIER FRAME

Half Set-up—and in Cartons

SILENTITE Pre-Fit single frames are carton packed—horizontal members in one carton—vertical members in another—all plainly marked with opening size. Mullion centers—mullion heads and sills likewise. Whether the frames are set up by the dealer or by the builder on the job, one is assured of a clean unmarred product in perfect shape for painting.

The horizontal members in a carton include the sill, W-30 or W-31 and W-51, W-44, W-48 and W-40, all nailed up. Two sets of vertical members are in another carton, W-50, W-44, W-41, and W-48, likewise nailed up.

These assembled sections member solidly and quickly because they are accurately machined. The assembly is half completed before the materials are cartoned. The frame set-up time is reduced materially.

Since the addition of Drip-Cap, Brick Molds and Inside Jamb Liners changes the basic frame to a complete frame for varying wall construction, those parts are applied by the dealer. This small amount of work on the dealer's part insures unusually prompt delivery.

If frames are set up on the job the builder may apply these additions either from cut-to-length or lineal stock.

Adjusting Basic Frame to Various Wall Types

Inside plaster ground liners (W-61) bring out the jamb to the correct width for ¾″ sheathing. ¾″ lath and plaster and 3⅝″ studs. Other similar liners substituted in this same position, provide the correct jamb widths for 3¾″ studs and all other types of wall construction.

Mullion Jamb Liners (W-70) are provided in proper thickness to widen the mullion to points corresponding to the several side and head plaster ground liners.

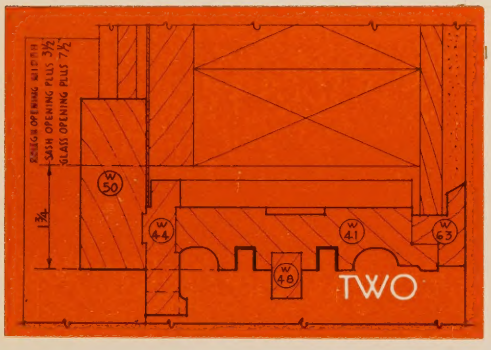
The inside stops used (furnished in four widths where any ordinary type of trim is used) must correspond to the jamb liners selected to adjust the frame to a certain thickness of wall. The back of the stop is so detailed that the necessary sash clearance is provided.

When Mitertite Trim is used the correct Mitertite stop (completely machined) must be specified.

Outside casing (W-50) 2⅞″ wide, is the same on all frames. The basic frame is converted for all walls by changing the inside liners and applying the necessary band molds to the outside casing.

One piece sills (W-30 and W-31) are furnished for 3⅝″ and 3¾″ stud walls. Lineal foot sill stock is furnished in two pieces—the sill proper and the necessary plaster ground liner.

The Silentite frame may be adapted to a wall construction using full 4″ studs by specifying W-66 jamb liners, W-73 mullion jamb liner, stops C-5031-F or C-5131-F and stools C-5211-F or C-5111-F.



C-1516 (Two) 5-5/16″ Jambs, 3-¾″ Stud Wall, Siding or Shingles

To the basic cartoned frame parts, W-85 (W-31 sill and standard head), and W-90, there must be added W-63 head and side jamb liners, mullion jamb liner W-71 and Drip Cap W-55.

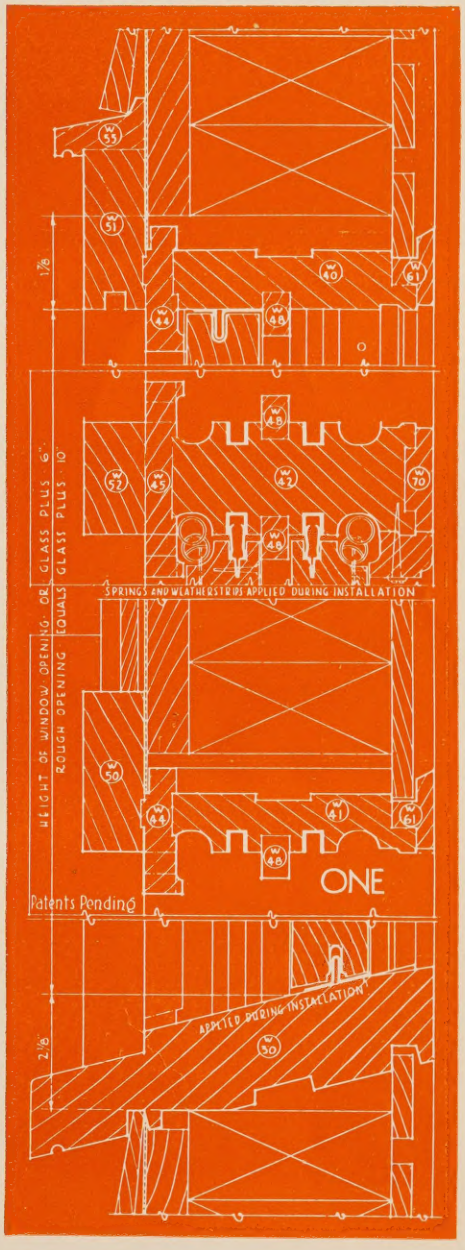
For Mitertite Trim use stops C-5080 and stool C-5059 or C-5159. For other trim use stops C-5031 or C-5131 and stools C-5211-W or C-5111-W.

C-1515 (One) 5-3/16″ Jambs, 3-⅝″ Stud Wall, Shingles or Siding

In addition to the cartoned basic frame parts, W-80 and W-90 liners W-61 and W-70 are used to produce the exact jamb width required. Drip-Cap W-55 is added.

For Mitertite Trim use stop C-5079; stool C-5058, or C-5158.

For ordinary trim use stops C-5030 or C-5130; stools C-5211-N or C-5111-N.



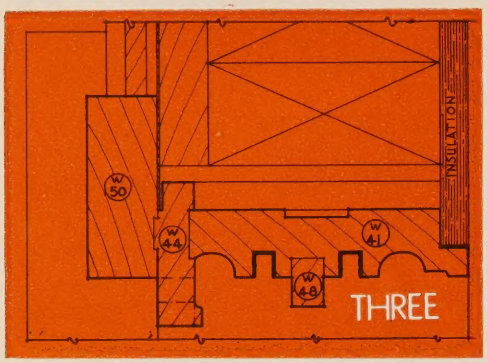
FEATURES THAT REDUCE FUEL COST

C-1517 (Three) 4-7/8" Jambs, 3-5/8" Stud Wall, Insulation Inside—Siding or Shingles

To basic carton frame parts W-80 and W-90 there is added only the Drip-Cap W-55. From the standard sill W-30 5/16" must be removed.

For Mitertite Trim use stop C-5078; stools C-5058 or C-5158 (sill and rabbet in stool reduced 9/16".)

For other trim use stops C-5028 or C-5128; stools C-5211-N or C-5111-N.

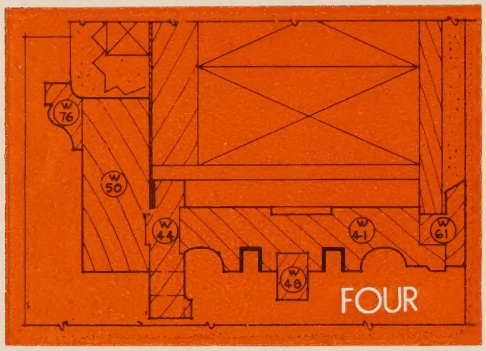


C-1519 (Four) 5-3/16" Jambs, 3-5/8" Stud Wall, Stucco with 3/4" Furring

To W-80 and W-90 the basic cartoned frame parts, W-57 Drip-Cap, W-76 head and side band mold and W-61 head and side jamb liner, mullion liner W-70 are added.

For Mitertite Trim use stop C-5079 and stool C-5058 or C-5158.

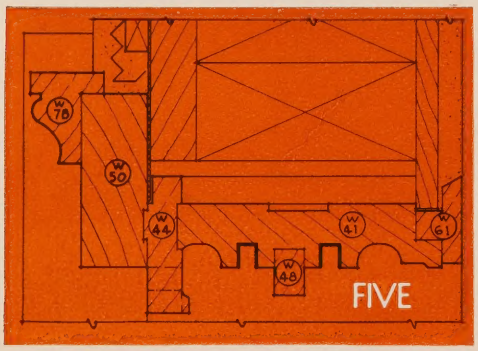
For any other trim the stop becomes C-5030 or C-5130 and the stool C-5211-N or C-5111-N.



C-1520 (Five) 5-3/16" Jambs, 3-5/8" Stud Wall. Stucco with 3/8" Furring.

Basic cartoned units W-80 and W-90, head band mold W-77, rabbeted side band molds W-78, Drip-Cap W-56, head and side jamb liners W-61 and mullion jamb liner W-70 are required.

For Trim members see C-1519 (Four) above.



THE Silentite Pre-Fit Window Unit is more than a window—it is a complete unit, weather-stripped. Its use in the new or remodeled home is much more far-reaching than the use of ordinary windows and frames could possibly be.

It makes a home more livable, because the superior frame construction with its several additional weather seals and the window with its double-contact, metal-to-metal positive weather-stripping eliminates drafts.

In addition the Protectorvent storm sash (Health Window) provides *controlled* ventilation.

It makes a home more beautiful because of its narrow casings, mullions, glass division bars and narrow, permanently jointed inside trim.

More economical living results from the weather-tightness of the complete unit. As compared to the ordinary commercial window Silentite pays for itself—in the fuel it saves.

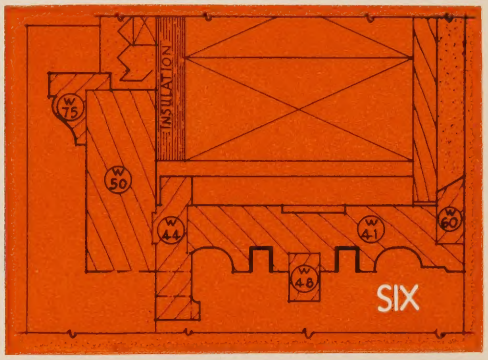
The pages of this book are filled with information on these points of superiority. A study of the construction details on these last three pages will conclusively prove the great insulation possibilities of the frame and its adaptability to any wall construction.

C-1521 (Six) 4-7/8" Jambs, 3-5/8" Stud Wall. Stucco with 3/8" Furring Over Outside Insulation.

Here Drip-Cap W-57, head band mold W-76, side band mold W-75, head and side jamb liners W-60 are additions to basic cartoned units W-80 and W-90.

Mitertite Trim: Same as C-1517. When other trim is applied use stops C-5028 or C-5128; stools C-5211-N or C-5111-N.

Frames and Windows Treated in Toxic Solution

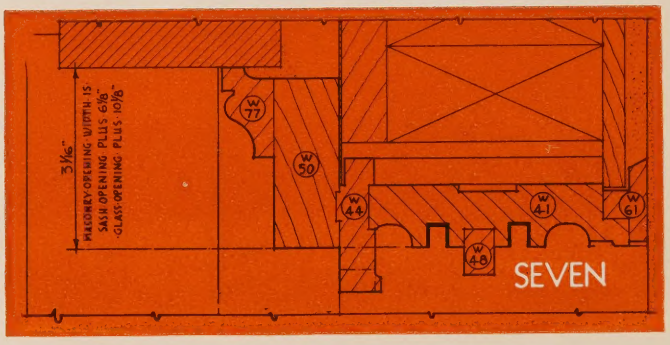


C-1523 (Seven) 5-3/16" Jambs, 3-5/8" Studs in Brick Veneer Wall.

To the cartoned basic frame parts W-80 and W-90, the brick mold W-77 at sides and head, W-61 head and side jamb liners, and W-70 mullion liner, must be added. With 3 3/4" studs, liner W-63 would be used. Full 4" studs require jamb liners W-66.

Mitertite Trim: stop and stool same as C-1515 (One).

For other trim, same as C-1515. When liners change stops and stools also must change.



ROUGH AND MASONRY OPENINGS

The several details of the SILENTITE Frame are shown as an aid to the architect or builder in placing each frame correctly in the wall.

On Masonry Frames Details SEVEN to TWELVE inclusive the brick mold can be offset or set flush as desired. A better brick job can be secured by offsetting this mold. Note its effect on the rough opening.

ROUGH OPENINGS REQUIRED

All rough openings are based on a 4 x 6 wood allowance over glass.

ROUGH STUD OPENINGS

Single Frame Width—Sash opening plus..... 3½″
Total glass plus..... 7½″
Mullion Frame Width—Sash opening plus..... 5⅝″
Total glass plus.....13⅜″
Triple Frame Width—Sash opening plus..... 7¾″
Total glass plus.....19¾″
Height all Frames—Sash opening plus..... 4″
Total glass plus..... 10″

MASONRY OPENINGS

Single Frame Width—Without band mold sash opening plus..... 5¾″
Total glass plus..... 9¾″
Mullion Frame Width—Without band mold sash opening plus..... 7⅞″
Total glass plus.....15⅞″
Triple Frame Width—Without band mold sash opening plus..... 10″
Total glass plus..... 22″
If band mold is offset add ⅜″ to widths.
Height all Frames—Without band mold sash opening plus..... 5⅞″
Without band mold total glass plus.....11⅞″
If band mold is offset add $\frac{3}{16}$″ to heights.

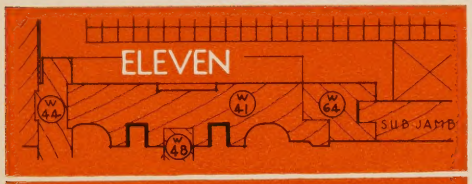
C-1527 (Eleven) 5-11/16″ Jambs with Sub-Jambs

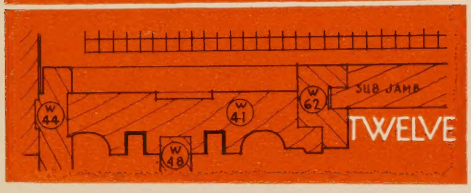
For Mitertite Trim, stop C-5084. Stools special.
For ordinary trim, stops C-5036 or C-5136. Stools special.

C-1528 (Twelve) 5-3/8″ Jambs with Sub-Jambs

For Mitertite Trim, stop C-5080. Stools special.
For ordinary trim, stops C-5030 or C-5130. Stools special.

Both are Masonry frames, liner W-62 being used when offset subjambs are desired. Brick mold casing, etc., identical with Nine above.

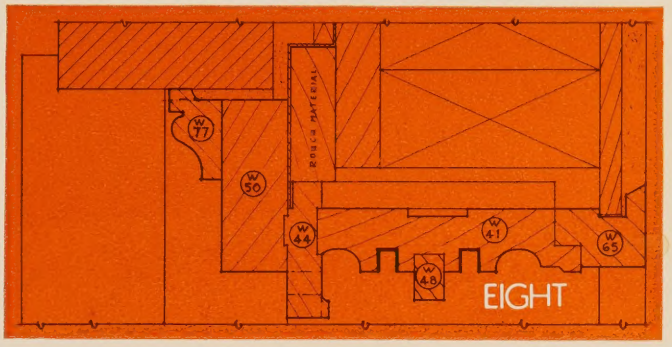




C-1524 (Eight) Brick Veneer Frame, 5-15/16″ Jambs, 3-5/8″ Studs, 3/4″ Extension Blind Stop.

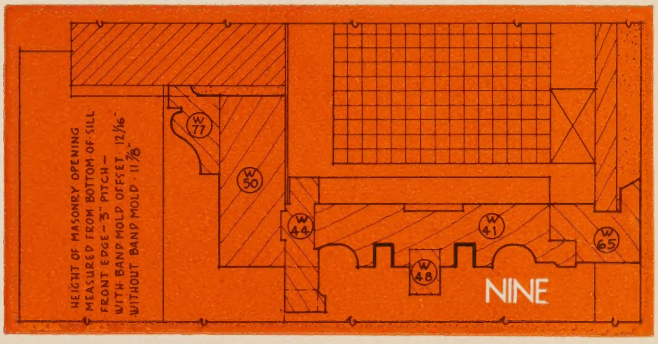
W-65 head asd side jamb liners, W-77 head and side brick molds and W-72 and W-70 mullion liners required in addition to W-80 and W-90. Brick mold may be eliminated if desired.

Mitertite Trim stops C-5084; stool C-5061 or C-5161. For other trim stops C-5036 or C-5136; stools C-5211-E or C-5111-E.



C-1524 (Nine) Jambs 5-15/16″ for 9¾″ or 10″ Masonry Wall.

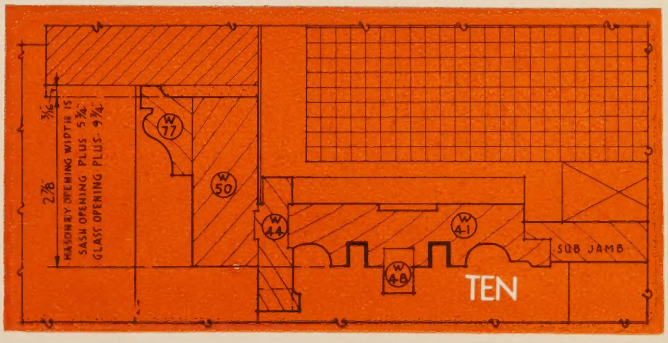
Frame and trim parts are identical with those listed under eight above. Frames C-1524-6-7 and 8 require ground at sill. This must be placed $\frac{5}{16}$″ below top of sill to properly support stool.



C-1526 (Ten) 4-7/8″ Jambs with Sub-Jambs, Masonry Wall.

Frame parts identical with nine above. Sub-jambs are not a part of the frame, but should be specified with the trim.

For Mitertite Trim stop C-5080; stool special. For other trim stops C-5030 or C-5130; stools special.



Curtains were removed here to show the beauty of the narrow Curtis Mitertite trim around door and window. Pictured are Curtis door C-3201; Curtis mantel C-6057; 16-light Silentite window; and the stairway of Curtis standard stair parts. Here one sees how very much good woodwork contributes to the modern interior.

Before You Buy Any Woodwork . . .
Compare It With Curtis

Be critical. Remember—your woodwork is as important as the motor in your car. If it isn't right in design, in construction, in materials, your home will never be truly satisfactory. Since 1866, the name CURTIS has been identified with woodwork of the highest quality. In many communities it is the standard by which other makes are judged. Not high-priced, but reasonably priced, Curtis Woodwork offers you maximum value for your money. Booklets covering other Curtis products are available upon request to any of the addresses given below. The Curtis line includes:

Silentite Pre-Fit Window Units . . . Exterior and Interior Doors . . . Entrances . . .
Windows . . . Frames . . . Trim . . . Moldings . . . Panel Work . . . Kitchen
Cabinet Units . . . Cabinet Work . . . Mantels . . . Stairways . . .
Garage Doors . . . Screens . . . Shutters . . . Storm Doors
and Windows . . . Mitertite Door and Window Trim

CURTIS COMPANIES SERVICE BUREAU, Clinton, Iowa

Curtis Bros. & Co., Clinton, Iowa
Curtis & Yale Co., Wausau, Wis.
Curtis Door & Sash Co., Chicago, Ill.
Curtis Sash & Door Co., Sioux City, Iowa

1866 CURTIS WOODWORK

Curtis, Towle & Paine Co., Lincoln, Nebr.
Curtis, Towle & Paine Co., Topeka, Kans.
Curtis-Yale-Purvis Co., Minneapolis, Minn.
Curtis Companies Inc., Clinton, Iowa

MILLER-PIEHL CO.

SEYMOUR, WIS.